General Requirements on Marking and Traceability Systems

Abstract

This document sets the general requirements on the systems that are to support Ericsson processes for Marking and Traceability.

Application

This document shall be used when to qualify and follow up suppliers as of verifying existing or new systems used at sites, which shall create (print) markings and generate (store) traceability data for Ericsson products or OEM products.

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Reader's guideline

A hyperlink in this document is only possible to use when connected to Ericsson Intranet (LAN).
1 Background

Systems used for printing markings and generate (store) traceability information must follow the basic standards and interface specifications set by Ericsson, which are the Ericsson implementation based on international standards for automatic identification and data capture.

These standards and interfaces enable Ericsson internally and with external suppliers to communicate marking and traceability information regardless usage of system solutions.

2 Requirement Description

2.1 General Requirement

Marking and Traceability systems must be able to;

1. Handle product data based on PRIM (Product Information Management System) and product specifications provided by Ericsson.

2. Create unique Ericsson traceability numbers based on the Ericsson factory code.
   
   2.1 Factory code according to 1120-101 Uen.
   
   Note: This code is NOT the same as the one used in Eliza

2.2 Product Traceability Numbers according to 0012-101 Uen

2.3 Ericsson serial number field used in memories or databases shall be filled up (with spaces) to 13 characters, if needed.

2.4 Package Identities according to 0012-2082 Uen

3. Create and read barcode types as Code128, Compact PDF417 (truncated PDF417), MikroPDF417, Data Matrix and EAN13 (only for GS1 GTIN13).

4. Maintain Country of Origin, in full English name and 2 character ISO code, per product (i.e. not as default value for per system installation).

5. Create product identity markings according to Ericsson marking instructions (102 01- or 1301-documents) based on 102 01-101 Uen using stored product numbers (according to PRIM) and generated traceability numbers (see 2.1) in local systems.

6. Create packaging markings according based on 102 01-1003 Uen, Marking of Product and Transport Packaging, using actual delivery data.

7. Generate and send data file (traceability records) to the Ericsson central database for traceability, see 155 19-FEA 104 701 Uen.
   
   7.1 Use of Ericsson factory code, e.g. X99, in data files to be sent

8. Receive data file (records/requests) from Ericsson’s central database and respond with record files when missing information are requested.
2.2 Printing of Markings

1 All printed markings must be according to Ericsson instructions, e.g. 102 01-, 151 86-, 1301-documents, etc.
   1.1 Placement of markings is given in product documentations like products specification 1301- or assembly drawing 151 88-.

2 Use predefined print files for printing of markings, when available.

3 The system shall as a minimum include thermo transfer printers that can print in 203dpi and 300dpi respectively. If possible use 600dpi printers.

4 Use approved labels and matching ink-ribbon as specified in product specifications, e.g. 1301-documents.

5 The system must include equipment for barcode readability test.

2.3 Creation and Storage of Product Traceability Data

2.3.1 Products with Y=Individual traceability set in PRIM

1 Traceability data shall be kept safe when stored in a local system until the data has been sent to Ericsson central traceability database.

2 It shall be possible to
   2.1 Create serial numbers and assign to a product identity as registered in PRIM
   2.2 Create and connect production date and production information
   2.3 Change product data not connected to serial numbers without creating a new line (record).
   2.4 Change product data as for example R-state already connected to serial numbers by creating and storing a new line (record) and sending the information to Ericsson central database.

3 Traceability data for manufactured or changed products shall be sent to Ericsson central traceability database before physical delivery of the products from the site that performed the creation or change of data.
   3.1 Verification that sending of serial numbers have been received shall be done either via SPIS support (see 4) or via http://tracy.ericsson.net.

2.3.2 Products with B=Batch traceability set in PRIM

1 Product data from PRIM connected to production date and/or batch number shall be stored in a local database during time set in agreement.

2 The traceability data shall be available to be sent to Ericsson for storing in Ericsson traceability database on requested or when stated in agreement.
2.3.3 **Products with N="No" traceability set in PRIM**

1. Product data from PRIM together with production week, origin and manufacturer to be marked (when possible) on products or at least on product package.

3 **Ericsson Standards and Documents**

The Ericsson contact person shall provide relevant Ericsson standards and documents to the supplier, enabling the supplier to fulfill the requirements stated in this document.

3.1 **Product Information Server**

Product Information Server (PIS) is a concept that gives the opportunity to deliver Product Information from PRIM/GASK/ELIZA to Ericsson suppliers.

The concept consists of a subscription in PRIM-COM that delivers the information to a website on the extranet and could be used when an external supplier need access to information within Ericsson systems.

Information for how to order and administration of PIS area is available in document 1553-CAL 150 093 Uen.

4 **Support**

4.1 **Ericsson users**

Ericsson users are requested to use SPIS Ericoll at [https://ericoll.internal.ericsson.com/sites/Supply_IT/spis](https://ericoll.internal.ericsson.com/sites/Supply_IT/spis)

4.2 **None Ericsson users**

None Ericsson users are requested to send an e-mail to the following address spis.one@ericsson.com.

4.3 **General instructions**

General instructions can be found at [http://tracy.ericsson.net/instructions](http://tracy.ericsson.net/instructions).

4.4 **Validation of send traceability information**

Sending of traceability information can be done using [http://tracy.ericsson.net](http://tracy.ericsson.net), where either serial number or shipment information is used as primary search key.
5 References

5.1 Main Documents

- **0012-101 Uen**: Product Traceability Numbers
- **0012-2082 Uen**: Package Numbers
- **102 01-101 Uen**: Product Identity Marking
- **102 01-1003 Uen**: Marking of Product, Outer and Transport Packaging
- **1120-101 Uen**: Factory codes
- **1301-xxx Uen**: Product Spec.
- **102 01- or 151 86-xxx Uen**: Marking Instructions
- **151 88-xxx Uen**: Assembly Drawing
- **155 19-FEA 104 701 Uen**: Tracy interface description
- **1553-CAL 150 093 Uen**: Administration of a PIS area - a guide

6 Change information

Changes from Rev E:

The document format is revised and content reviewed and updated to reflect made changes, i.e.

- Adding of reference to document for factory code
- Clarification that factory code and code in Eliza is not the same
- Adding of validation of that serial numbers have been received in database
- Removal of traceability setting "S"
- Adding of traceability setting "N"
- Update with support link and e-mail address
- Update with link to general instructions